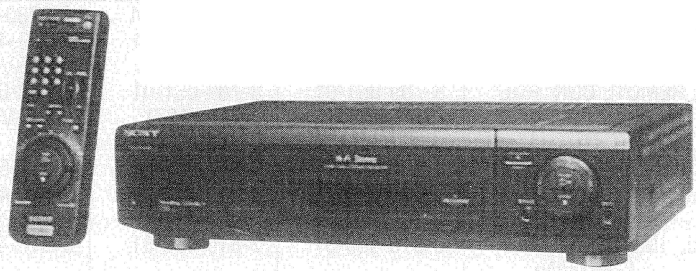
SLV-E811NP/VC1/VC2

RMT-V192

German Model
SLV-E811VC1/VC2

Spanish Model
SLV-E811NP



Hi-Fi
SHOWVIEW
H MECHANISM

Difference Manual

The service Manual for this set contains only the points which differ is bound together with the following Service Manual and therefore please refer to them.

SLV-E811NP → SLV-E810NP
SLV-E811VC1/VC2 → SLV-E810VC

See next page for defference part.

- **Main unit**

  SLV - E510EE/E510VC1/E510VC2
  - E710B/E710EX/E710NC
  - E710NP/E710UX/E710VC
  E710VP
  - E810B/E810BZ/E810EE/
  E810NP/E810UX/E810VC

  } 9-973-851-11 Service Manual

- **Mechanical Adjustment**

  VHS MECHANICAL ADJUSTMENT V (9-973-623-11)

SPECIFICATIONS

System
PAL (B/G)
VHF E2 to E12
VHF Italian channel A to H
UHF E21 to E69
CATV S01 to S05. S1 to S20
HYPER S21 to S41
RF output signal
UHF channels 28 to 55
Aerial out
75-ohm asymmetrical aerial socket

Inputs and outputs
EURO-AV (LINE-1)
PAY-TV DECODER/CANAL+
21-pin
Video input: pin 20
Audio input: pins 2 and 6
Video output: pin 19
Audio output: pins 1 and 3
LINE-2 IN
VIDEO IN, phono jack (1)
1 Vp-p, 75 ohms, unbalanced, sync negative
AUDIO IN, phono jack (2)
Input level: 327 mVrms
Input impedance: more than 47 kilohms
AUDIO OUT
Phono jack (2)
Rated output level: 327 mVrms
Load impedance: 47 kilohms
Output impedance: less than 10 kilohms

General
Power requirements
220 – 240 V AC, 50 Hz
Power consumption
25 W
Operating temperature
5°C to 40°C
Storage temperature
–20°C to 60°C
Dimensions
Approx. 430 × 109 × 323 mm (w/h/d)
including projecting parts and controls
Mass
Apperox. 4.7 kg

Supplied accessories
Remote commander (1)
R6 (size AA) batteries (2)
Aerial cable (1)
Audio cable (1)
Mains lead (1)

Design and specifications are subject to change without notice.

VHS PAL NTSC4.43 VIDEO CASSETTE RECORDER

MICROFILM

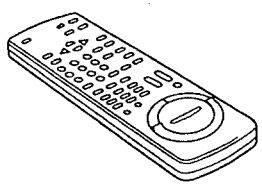
SONY®

Step 1

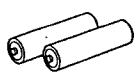
Unpacking

Check that you have received the following items with the VCR:

- Remote commander

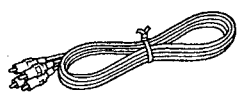


- R6 (size AA) batteries

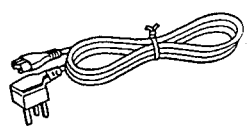


- Aerial cable

- Audio cable



- Mains lead

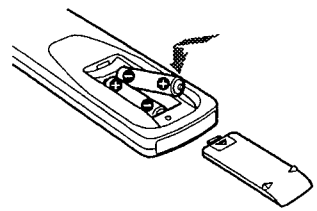


Step 2

Setting up the remote commander

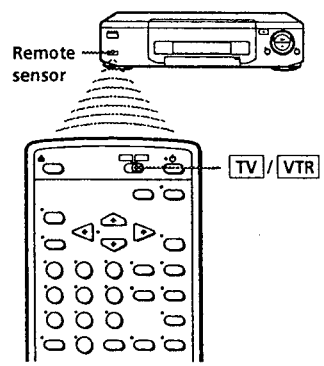
Inserting the batteries

Insert two R6 (size AA) batteries by matching the + and – on the batteries to the diagram inside the battery compartment.



Using the remote commander

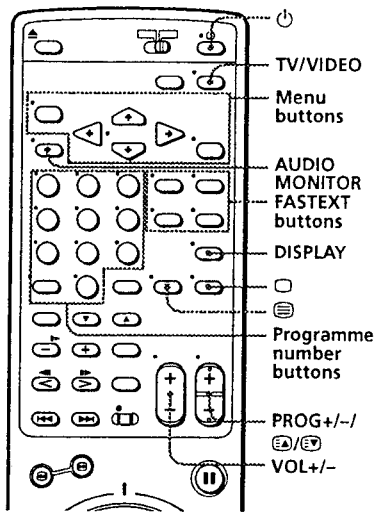
You can use this remote commander to operate this VCR and a Sony TV. Buttons on the remote commander marked with a dot (•) can be used to operate your Sony TV.



To operate	Set TV / VTR to
the VCR	VTR and point at the remote sensor on the VCR
a Sony TV	TV and point at the remote sensor on the TV

continued

This section is extracted from SLV-E810UX instruction manual.



TV control buttons

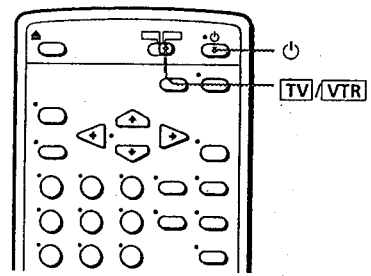
To	Press
Turn the TV into standby or active mode	⏻ (on/standby)
Select an input source of the TV either from aerial in or from line in	TV/VIDEO
Select the programme position of the TV	Programme number buttons PROG +/–
Adjust the volume of the TV	VOL +/–
Switch to TV (Teletext off)	▢ (TV)
Switch to Teletext	▤ (Teletext)
Select the sound	AUDIO MONITOR
Use FASTEXT	FASTEXT buttons
Call up on-screen display	DISPLAY
Change the Teletext page	▤▲/▤▼
Operate TV menu options	Menu buttons

Notes

- With normal use, the batteries should last about three to six months.
- If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
- Do not use a new battery with an old one.
- Do not use different types of batteries.

Controlling other TVs with the remote commander

The remote commander is preprogrammed to control non-Sony TVs. If your TV is listed in the table below, set the appropriate manufacturer's code number.



1 Set TV/VTR at the top of the remote commander to TV.
2 Hold down ⏻, and enter your TV's code number(s) using the number buttons. Then release ⏻.

Now you can use the following TV control buttons to control your TV: ⏻ (on/standby), TV/VIDEO, programme number buttons, PROG +/–, VOL +/–, ▢ (TV), ▤ (Teletext), FASTEXT buttons.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code number	Manufacturer	Code number
Sony	01, 02, 03, 04, 05	Hitachi	24
Aiwa	32	Hyper	31
Akai	68	Inno-Hit	41
Blaupunkt	10, 21	Irradio	20
Brionvega	40	ITT	15, 16
C.G.M, Mivar	09	JVC	33
Dual	44	Loewe	45
Fenner	30, 31	Mitsubishi	27, 28, 50, 51
Ferguson	52	NEC	66
Grundig	10, 11	Nokia	15, 16

continued

Manufacturer	Code number
Nordmende	35, 42
Orion	47, 48
Panasonic	17, 49
Philips	06, 07, 08
Phonola	18, 19
Pioneer	26
Saba	12, 13
Samsung	22, 23
Sanyo	25
Schneider	46

Manufacturer	Code number
Seleco	14
Sharp	29
Siemens	39
Sinudyne	37
TEAC	67
Telefunken	36
Thomson	43
Toshiba	38
White Westinghouse	34

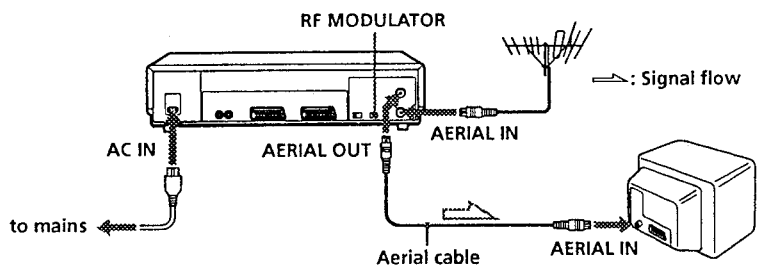
Notes

- If the TV uses a different remote control system from the one programmed to work with the VCR, you cannot control your TV with the remote commander.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote commander, the code number automatically resets to 01 (Sony). Reset the appropriate code number.

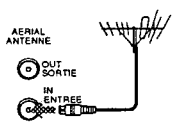
1-3

Step 3

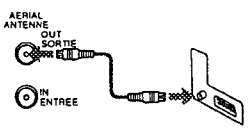
Connecting the VCR



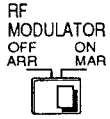
1 Disconnect the aerial cable from your TV and connect it to AERIAL IN on the rear panel of the VCR.



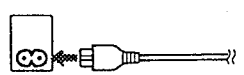
2 Connect AERIAL OUT of the VCR and the aerial input of your TV using the supplied aerial cable.



3 Make sure RF MODULATOR is set to ON.



4 Connect AC IN of the VCR to the mains using the supplied mains lead.

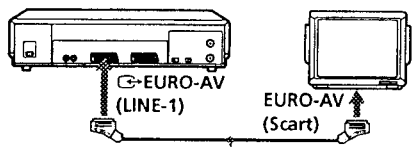


continued

Additional connections

To a TV that has a EURO-AV (Scart) connector

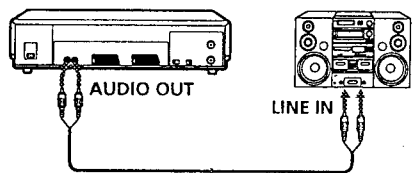
This additional connection improves picture and sound quality. Connect the TV as shown on the right. Whenever you want to watch the VCR picture, press TV/VIDEO on the remote commander (or TV/VTR on the VCR) to display the VTR indicator in the display window.



VMC-2121 EURO-AV cable (not supplied)

To a stereo system

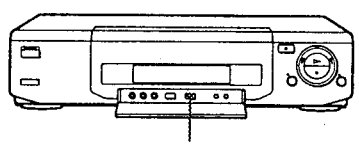
You can improve sound quality by connecting a stereo system as shown on the right.



Audio cable

To conserve the VCR power while the VCR is standing by

Set STANDBY DISPLAY to OFF. The indicators in the display window turn off to conserve the power. When you set a timer recording, the indicators in the display window are on even though STANDBY DISPLAY is set to OFF.



STANDBY DISPLAY

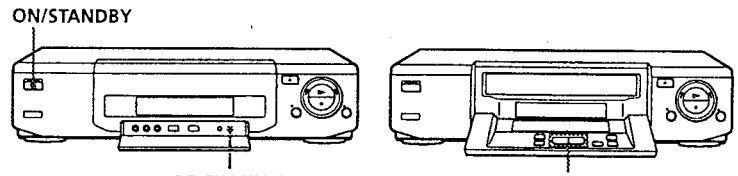
Tip

- When the TV is connected to the EURO-AV (LINE-1) connector, setting the RF MODULATOR switch to OFF is recommended. In the OFF position, only the signal from the aerial is output through the AERIAL OUT connector.

Step 4

Tuning your TV to the VCR

If you have connected your VCR to the TV using the EURO-AV cable, skip this step.



1 ON/STANDBY

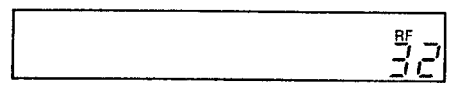
Press ON/STANDBY to turn on the VCR.

2 RF CHANNEL

Press RF CHANNEL on the VCR.

The factory-preset RF channel appears in the display window.

The VCR signal is output through this channel to the TV.



3

Turn on your TV and select a programme position for the VCR picture.

This channel will now be referred to as the video channel.

4

Tune the TV to the same channel as that shown in the display window so that the picture on the right appears on the TV screen.

Refer to your TV manual for tuning instructions.

If the picture does not appear clearly, see "To obtain a clear picture from the VCR" on the next page.

continued

5 RF CHANNEL

Press RF CHANNEL.

You have now tuned your TV to the VCR. From now on, whenever you want to play a tape, set the TV to the video channel.

To check to see if the TV tuning is correct

Set the TV to the video channel and press PROGRAM +/– on the VCR. If the TV screen changes to a different programme each time you press PROGRAM +/–, the TV tuning is correct.

To obtain a clear picture from the VCR

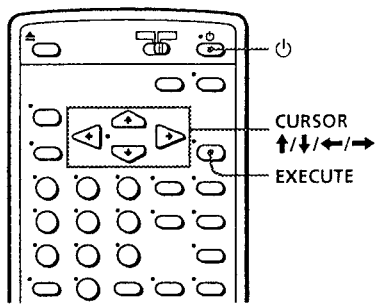
If the picture does not appear clearly in step 4 above, press PROGRAM +/– in step 4, so that another RF channel appears. Then tune the TV to the new RF channel until a clear picture appears.

1-5

Step 5

Setting up the VCR with EASY SET UP

Before using the VCR for the first time, set up the VCR using the EASY SET UP function. With this function, you can set the language for the on-screen display, TV channels, guide channels for VIDEO Plus+, and the VCR clock, guided by the sequence indicated on the TV screen.



1 •⏻

Press ⏻ to turn on the VCR.

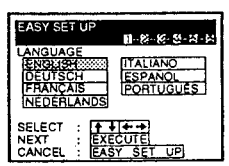
2

Turn on your TV and set it to the video channel.

3 EASY SET UP

Press EASY SET UP on the VCR.

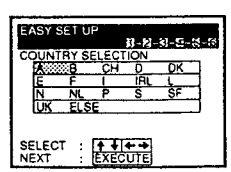
To cancel the EASY SET UP function, press EASY SET UP again.



4 •CURSOR •EXECUTE

Press CURSOR ↑/↓/←/→ to highlight the desired language, then press EXECUTE.

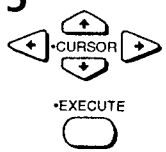
The country abbreviations for ITP (Intelligent Tuner Preset) appear.



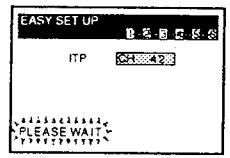
continued

Step 5 : Setting up the VCR with EASY SET UP (continued)

5



Press CURSOR ↑/↓/←/→ to highlight the abbreviation of your country, then press EXECUTE.



The abbreviations of the countries are as follows:

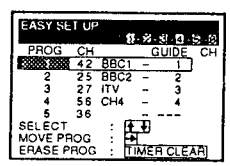
A: Austria	L: Luxemburg
B: Belgium	N: Norway
CH: Switzerland	NL: Netherlands
D: Germany	P: Portugal
DK: Denmark	S: Sweden
E: Spain	SF: Finland
F: France	UK: United Kingdom
I: Italy	ELSE: other countries
IRL: Ireland	

If your country does not appear, select ELSE.

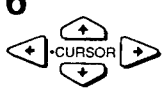
When you press EXECUTE, ITP starts searching for all the receivable channels.

ITP sorts the located channels appropriately for the selected country and presets them to the programme positions. Some VIDEO Plus+ guide channels and station names may also be preset if ITP can detect them.

During presetting, the channel being located is displayed on the TV screen. When all the channels are preset, the following screen appears.



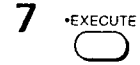
6



Using CURSOR ↑/↓/←/→, set the station names and VIDEO Plus+ guide channels that could not be preset automatically, change the programme positions of the stations, and disable the unused programme positions. (If not necessary, skip this step.)

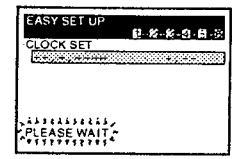
The setting procedures are the same as those described in "Manual setup — Selecting station names/setting up VIDEO Plus+" on page 20 and "Manual setup — Changing/disabling programme positions" on page 25.

7



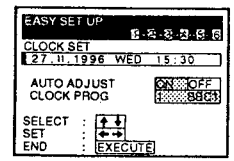
Press EXECUTE.

Auto Clock Set starts searching for a TV station that carries the time signal and sets the clock time automatically. The date is also set if the date data is transmitted from the TV station.



When the clock setting is completed, the following screen appears.

If the VCR does not receive the time signal from any station, "1.1. 1996 MON 0:00" appears and AUTO ADJUST is set to OFF.



8

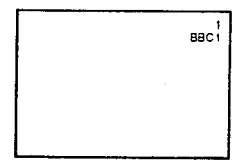
If necessary, adjust the date and/or time manually or change the station for Auto Clock Set using CURSOR ↑/↓/←/→.

The setting procedures are the same as those described in "Manual setup — Setting the clock" on page 28.

9

Press EXECUTE .

A programme position appears on the TV screen. The station name may also appear if the VCR has detected it.

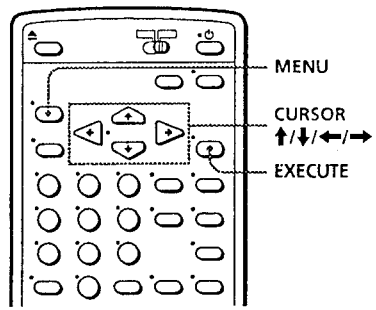


Note

- Do not exit EASY SET UP while ITP is presetting channels. If you do, repeat EASY SET UP from the beginning.

1-6

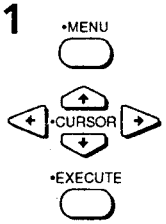
Manual setup — Selecting a language



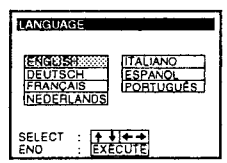
You can change the on-screen display language from the one you selected with EASY SET UP.

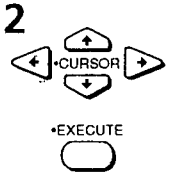
Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.

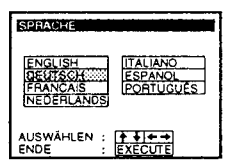
1 

Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to LANGUAGE and press EXECUTE.

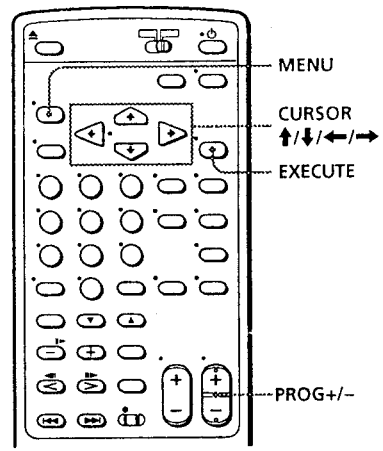


2 

Press CURSOR ↑/↓/←/→ to highlight the desired language, then press EXECUTE.



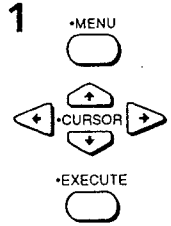
Manual setup — Presetting channels



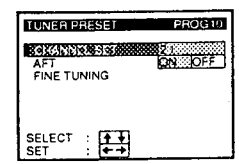
If some channels could not be preset using EASY SET UP, you can preset them manually.

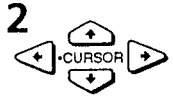
Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.

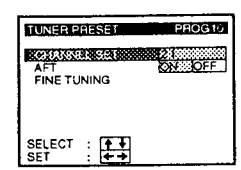
1 

Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to TUNER PRESET and press EXECUTE.



2 

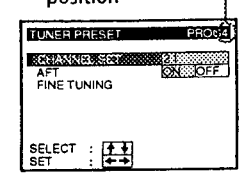
Press CURSOR ↑/↓ to move the cursor (I) to CHANNEL SET.



3

Press PROG +/– to select the programme position.

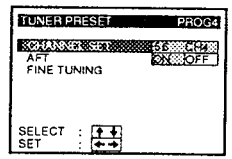
Selected programme position



continued

4 Press CURSOR ➡ to start tuning.

The VCR starts searching for a channel and displays the first one it finds on the TV screen. Press CURSOR ⬅/➡ repeatedly until the channel you want is displayed.



The channels are scanned from VHF E21 to E69.

If you know the number of the channel you want, press the programme number buttons. For example, for channel 43, first press "4" and then press "3."

5 To allocate another channel to another programme position, repeat steps 3 and 4.

6 •EXECUTE

Press EXECUTE.

Disabling unwanted programme positions

After tuning the TV channels, you can disable unused programme positions. The disabled positions will be skipped later when you press the PROG +/– buttons. You can also disable unwanted programme positions using the SET UP CH & VIDEO Plus+ menu (page 27).

1 In step 4 above, press programme number button "0" twice to display the number "0" beside CHANNEL SET.

2 Press EXECUTE.

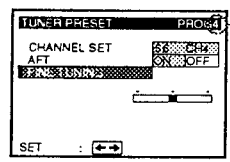
If the picture is not clear

Normally, the Auto Fine Tuning (AFT) function automatically tunes in channels clearly. If, however, the picture is not clear, you may also use the manual tuning function.

1 Press PROG +/– to select the programme number for which you cannot obtain a clear picture.

2 Press MENU, then select TUNER PRESET and press EXECUTE.

3 Select FINE TUNING. The fine tuning meter appears.



Selected programme position

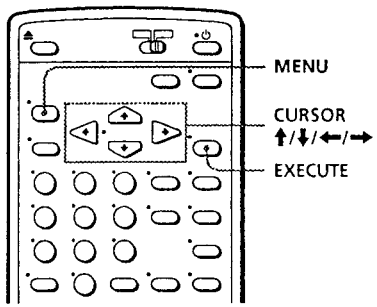
4 Press CURSOR ⬅/➡ to get a clearer picture, then press EXECUTE.

Note that the AFT (Auto Fine Tuning) setting switches to OFF.

Note

- The menu disappears automatically if you don't proceed for more than a few minutes.

Manual setup — Selecting station names/setting up VIDEO Plus+



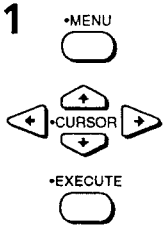
VIDEO Plus+ is a feature in Sony VCRs that simplifies programming the VCR to make timer recordings. To use VIDEO Plus+, each programme position needs to be matched with its VIDEO Plus+ guide channel. If the guide channels were not preset in the EASY SET UP procedure, set them by selecting the station names. If you cannot find a station name you want, you need to set the guide channel manually. To get the guide channel numbers, see "Guide channels for VIDEO Plus+" on page 23, or look in the programme guide for your area that features PlusCode.

- If you want to record satellite broadcasts using VIDEO Plus+, see page 24.

Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.

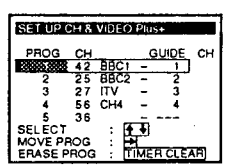
1



Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to SET UP CH & VIDEO Plus+ and press EXECUTE.

When using the EASY SET UP procedure, skip this step.

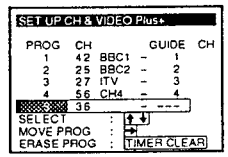
The preset channels are displayed on the screen. The station names and guide channels also appear if the VCR detected them in EASY SET UP. "---" in the GUIDE CH column means that the guide channel has not been preset.



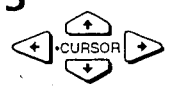
2

Press CURSOR ↑/↓ to move the cursor (I) to the row on which you want to set the station name and guide channel.

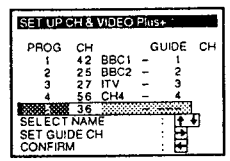
To display other pages for programme positions 6 to 60, press CURSOR ↑/↓ repeatedly.



3



Press CURSOR → twice to highlight the station name and guide channel columns only.

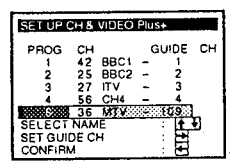


4

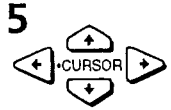
Press CURSOR ↑/↓ to select the station name.

The corresponding guide channel number is set automatically.

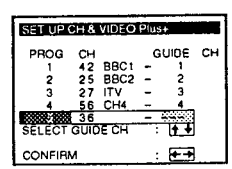
- If you can set the station name and guide channel this way, press CURSOR ← to confirm the setting and skip steps 5 to 7.
- If you cannot find the station name you want to set, go on to the next step.



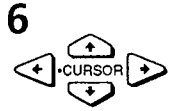
5



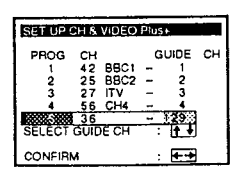
Press CURSOR → to highlight the guide channel column only.



6



Press CURSOR ↑/↓ to select the guide channel number assigned in the programme guide.

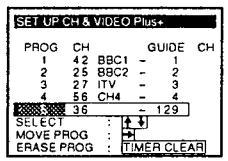


continued

Manual setup — Selecting station names/setting up VIDEO Plus+ (continued)

7 Press CURSOR ←/→ to confirm the setting.

The cursor (I) appears in the leftmost column.



8 To set the station name and guide channel of another station, repeat steps 2 to 7.

If you want to change the programme positions of the stations, proceed to step 2 of "Manual setup — Changing/disabling programme positions" on page 25.

9 Press EXECUTE.

Guide channels for VIDEO Plus+

Guide channel	Station name
001	BBC1
002	BBC2
003	ITV
004	CHANNEL 4
005	RTE (IRELAND)
006	NETWORK 2 (IRELAND)
101	SKY ONE
102	SKY NEWS
103	SKY MOVIES
104	THE MOVIE CHANNEL
105	SKY SPORT
106	NICKELODEON
	VH-1 GERMANY
107	EUROSPORT
108	GALAVISION
109	MTV EUROPE
110	CHILDERN'S CHANNEL
	THE FAMILY CHANNEL
111	SKY MOVIES GOLD
112	BBC WORLD SERVICE
113	RTL 4
114	SUPER SPORT
	FILMNET 2
	FILMNET +
115	RTL PLUS INTERNATIONAL
116	SAT 1
117	PREMIERE
118	3 SAT
119	ARD
120	PRO 7
121	TELE 5

Guide channel	Station name
122	TELECLUB
123	UK GOLD
124	DISCOVERY
	THE LEARNING CHANNEL
125	BRAVO
	ADULT CHANNEL
126	CNN
127	EURONEWS
129	QVC
130	UK LIVING
131	RAI 1
132	RAI 2
133	TV5 EUROPE
134	TVE INTERNATIONAL
135	MBC/ARABIC
136	VTM
137	SPORTNET
138	COUNTRY MUSIC TV
139	VIDEO HITS ONE
	VH-1
140	SKY SPORT 2 & SOAPS & TRAVEL
141	TV ASIA
142	LA-5
143	LIVE TV
144	SUPERCHANNEL
145	JAPAN TV
146	SELECT TV TV ASIA
147	MOVIE CHANNEL
	FILMNET 1
149	TNT
	CARTOON NETWORK

Note

- The guide channel codes listed above are as of 11 September 1995. If you have any questions about the guide channels, please consult your nearest Sony service facility or the marketing group of Sony UK.

continued

Setting up VIDEO Plus+ for satellite broadcasts

When your satellite tuner is connected via the AERIAL IN connector, first you have to set the programme position for each satellite channel using the TUNER PRESET menu. Then set the guide channel number for each satellite channel using the SET UP CH & VIDEO Plus+ menu.

If your satellite tuner is connected via the LINE-3 IN EURO-AV (Scart) connector, you don't have to set programme positions nor guide channel numbers for satellite channels. Skip the following operations.

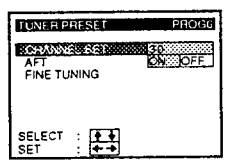
1 Turn on the satellite tuner.

2 Press MENU, then select TUNER PRESET and press EXECUTE.

3 Press PROG +/– to select a programme position you want to use for watching a satellite channel.

4 Select CHANNEL SET, then press CURSOR ➡ to tune the VCR to the satellite tuner.

The channel number displayed beside CHANNEL SET is used for receiving all satellite broadcasts from the satellite tuner.



5 Press PROG +/– to select another programme position for another satellite channel, and press the programme number buttons to enter the same channel number as the one displayed in step 4.

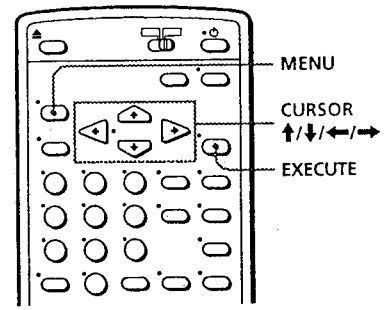
Repeat this step for all satellite channels.

6 Set the guide channel number for each programme position assigned to the satellite channel, following the procedures in "Manual setup — Selecting station names/setting up VIDEO Plus+" on page 20.

Notes

- The menu disappears automatically if you don't proceed for more than a few minutes.
- If you use a satellite tuner connected via the LINE-3 IN EURO-AV (Scart) connector, you don't have to set up VIDEO Plus+. Just record a satellite programme using VIDEO Plus+, and the VCR automatically records the programme from the LINE-3 IN connector.
- If you inadvertently entered a guide channel number, press CURSOR ↑/↓ repeatedly to reset the "GUIDE CH" column to "---." "---" appears between 1 and 255.
- The VCR does not allow entering the guide channel number, if the same number has been set.
- When you record a satellite broadcast using VIDEO Plus+, you need to select the desired channel on the satellite tuner manually.

Manual setup — Changing/ disabling programme positions



After setting the channels and VIDEO Plus+ guide channels, you can change the programme positions as you like. If any programme positions are unused or contain unwanted channels, you can disable them.

Before you start...

- Turn on the VCR and the TV.
- Set the TV to the video channel.

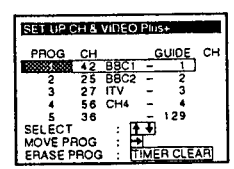
Changing programme positions

e.g. Moving the programme position from 3 to 1.

1 •MENU / •CURSOR / •EXECUTE

Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to SET UP CH & VIDEO Plus+ and press EXECUTE.

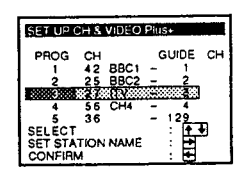
When using the EASY SET UP procedure, skip this step.



2 •CURSOR

Press CURSOR ↑/↓ to move the cursor (I) to the row on which you want to change the programme position, then press CURSOR ➡.

To display other pages for programme positions 6 to 60, press CURSOR ↑/↓ repeatedly.



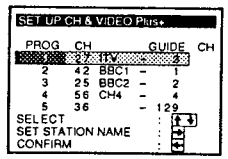
continued

Manual setup — Changing/disabling programme positions (continued)

3 •CURSOR

Press CURSOR ↑/↓ until the selected channel and guide channel row moves to the desired programme position.

The selected channel and guide channel are inserted at the new programme position and the intermediate channels are displaced to fill the gap.



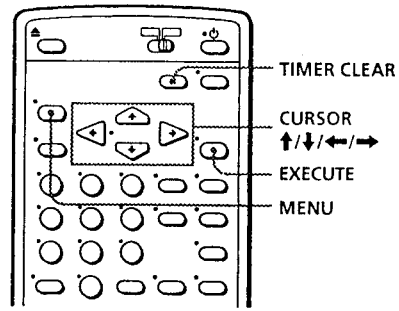
4 Press CURSOR ← to confirm the setting.

5 To change the programme position of another station, repeat steps 2 to 4.

6 •EXECUTE

Press EXECUTE.

Disabling unwanted programme positions



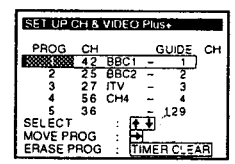
Note

- Be sure to select the programme position you want to disable correctly. If you disable a programme position by mistake, you need to reset that channel manually.

1 •MENU, •CURSOR, •EXECUTE

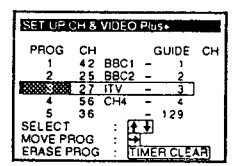
Press MENU, then press CURSOR ↑/↓ to move the cursor (!) to SET UP CH & VIDEO PLUS+ and press EXECUTE.

When using the EASY SET UP procedure, skip this step.



2 •CURSOR

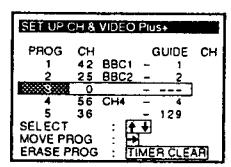
Press CURSOR ↑/↓ to move the cursor (!) to the row on which you want to disable.



3 TIMER CLEAR

Press TIMER CLEAR.

The selected row will be cleared as shown on the right.

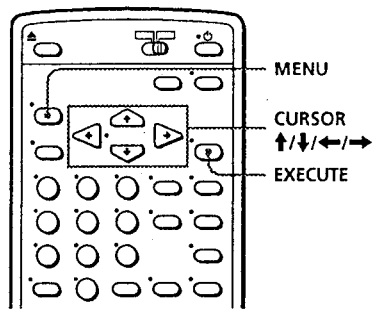


4 Repeat steps 2 and 3 for any other programme positions you want to disable.

5 •EXECUTE

Press EXECUTE.

Manual setup — Setting the clock



You must set the time and date on the VCR to be able to use the timer recording features properly. If the VCR clock was not set in the EASY SET UP procedure, you need to set it manually.

If the Auto Clock Set did not set the clock correctly for your local area, try another station for Auto Clock Set.

Before you start...

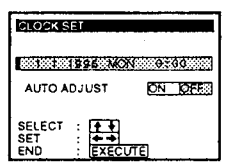
- Turn on the VCR and the TV.
- Set the TV to the video channel.

Setting the clock manually

1 •MENU, •CURSOR, •EXECUTE

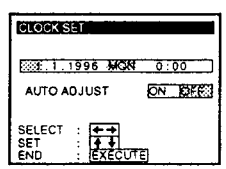
Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to CLOCK SET and press EXECUTE.

When using the EASY SET UP procedure, skip this step.



2 •CURSOR

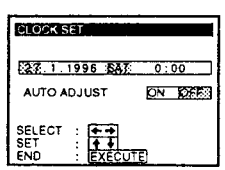
Press CURSOR → to highlight the day and the day of the week.



3 •CURSOR

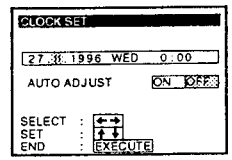
Press CURSOR ↑/↓ to set the day.

The day of the week is set automatically.



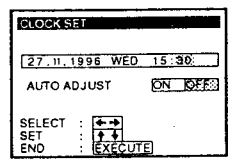
4 •CURSOR

Press CURSOR → to highlight the month and set the month using CURSOR ↑/↓.



5 •CURSOR

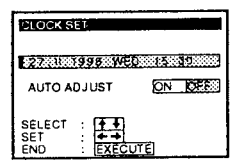
Set the year, hour and minutes in sequence, using CURSOR → to highlight the item to be set, and CURSOR ↑/↓ to select the digits.



6 •CURSOR

Press CURSOR → to confirm the setting.

The cursor (I) appears in the leftmost column.

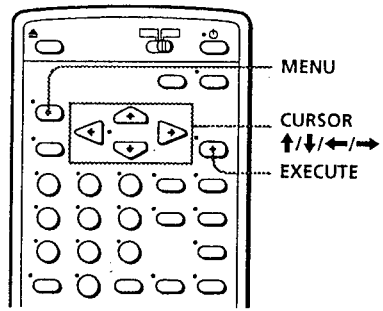


7 •EXECUTE

Press EXECUTE to start the clock.

continued

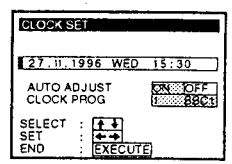
Changing the station for Auto Clock set



1 •MENU, •CURSOR, •EXECUTE

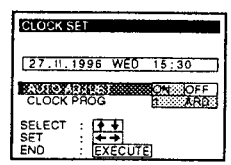
Press MENU, then press CURSOR ↑/↓ to move the cursor (I) to CLOCK SET and press EXECUTE.

When using the EASY SET UP procedure, skip this step.



2 •CURSOR

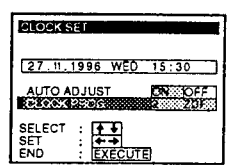
Press CURSOR ↓ to move the cursor (I) to AUTO ADJUST, then press CURSOR ← to highlight ON.



3 •CURSOR

Press CURSOR ↓ to move the cursor (I) to CLOCK PROG, then press CURSOR ←/→ repeatedly until the programme position of the station that carries the time signal appears.

If the VCR does not receive the time signal from any station, AUTO ADJUST returns to OFF automatically.



4 •EXECUTE

Press EXECUTE.

Tips

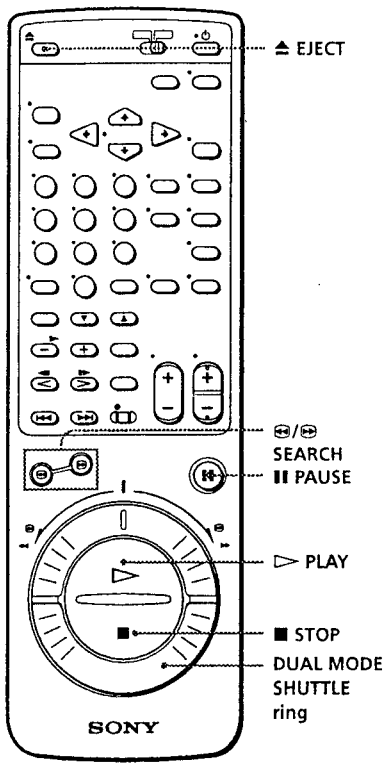
- To change the digits during setting, press CURSOR ← to return to the item to be changed, and select the digits using CURSOR ↑/↓.
- If you set AUTO ADJUST to ON, the Auto Clock Set is activated whenever the VCR is turned off. The date and time is adjusted automatically by making reference to the time signal from the station whose programme position is displayed in the "CLOCK PROG" row.

  If you do not need the Auto Clock Set, highlight OFF.

Note

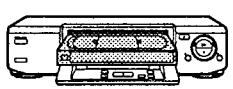
- The menu disappears automatically if you don't proceed for more than a few minutes.

Playing a tape



1 Turn on your TV and set it to the video channel.

2 The VCR turns on and starts playing automatically if you insert a tape with its safety tab removed.



3

Press ▷ PLAY.

When the tape reaches the end, it will rewind automatically.

Additional tasks

To	Press
Stop play	■ STOP
Pause play	II PAUSE
Resume play after pause	II PAUSE or ▷ PLAY
Search forward	• Turn the DUAL MODE SHUTTLE (DMS) ring to ⏭ during playback
	• ⏭ SEARCH during playback
Search backward	• Turn the DMS ring to ⏮ during playback
	• ⏮ SEARCH during playback
Fast-forward the tape	Turn the DMS ring to ▶▶ FF during stop
Rewind the tape	Turn the DMS ring to ◀◀ REW during stop
Eject the tape	⏏ EJECT

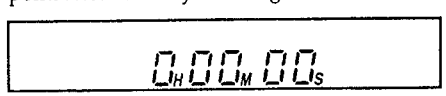
To play an NTSC-recorded tape

Set NTSC PB at the rear of the VCR according to the colour system of your TV.

When your TV is	Set NTSC PB to
PAL only	ON PAL TV
PAL and NTSC	NTSC 4.43

To use the time counter

At the point the tape that you want to find later, press COUNTER RESET. The counter in the display window resets to "0H00M00S." Search for the point afterwards by referring to the counter.

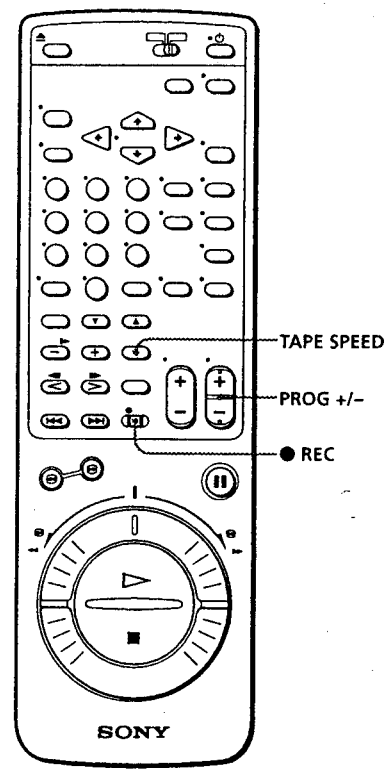


To display the counter on the TV screen, press DISPLAY.

Notes

- Depending on your TV, the following may occur while playing an NTSC-recorded tape:
  - The picture becomes black and white.
  - The picture shakes.
  - No picture appears on the TV screen.
  - Black streaks appear horizontally on the TV screen.
  - The colour density increases or decreases.
- If you play back a tape in LP or EP mode with NTSC system, the sound is heard in monaural.
- The counter resets to "0H00M00S" whenever a tape is reinserted.
- The counter stops counting when it comes to a portion with no recording.

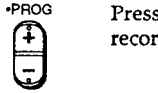
Recording TV programmes

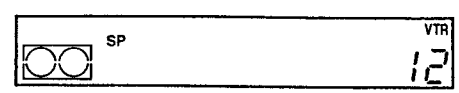


1 Turn on your TV and set it to the video channel.

2 Open the drop down panel and insert a tape with its safety tab in place.

3 Press PROG +/– to select the programme position you want to record.





4 TAPE SPEED

Press TAPE SPEED to select the tape speed, SP or LP.

LP provides recording time twice as long as SP, however, SP produces better picture and audio quality.

5 ●REC

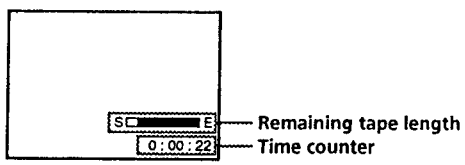
Press ● REC to start recording.

To stop recording

Press ■ STOP.

To check the remaining tape length

Press DISPLAY. The white bar indicates the approximate length of tape remaining.

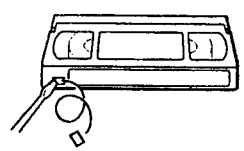


To watch another TV programme while recording

1. Press TV/VIDEO on the remote commander (or TV/VTR on the VCR) to turn off the VTR indicator in the display window.
2. Select another programme position on the TV.

To save a recording

To prevent accidental erasure, break off the safety tab as illustrated. To record on a tape again, cover the tab hole with adhesive tape.



Safety tab

continued

Tips

- To select a programme position, you can use the programme number buttons on the remote commander. For two-digit numbers, press the -/-- (ten's digit) button followed by the programme number buttons.
- You can select a video source from the EURO-AV (LINE -1) or EURO-AV (LINE-3) connector, or the LINE-2 IN VIDEO/AUDIO L/R jacks using INPUT SELECT.
- To cut out an unwanted scene while recording, press ❚❚ PAUSE and turn the DUAL MODE SHUTTLE ring on the VCR to rewind the tape to the beginning of the unwanted scene, then press ❚❚ PAUSE to resume recording.
- The display appears on the TV screen indicating information about the tape, but the information won't be recorded on the tape.
- If you don't want to watch TV while recording, you can turn off the TV.

Notes

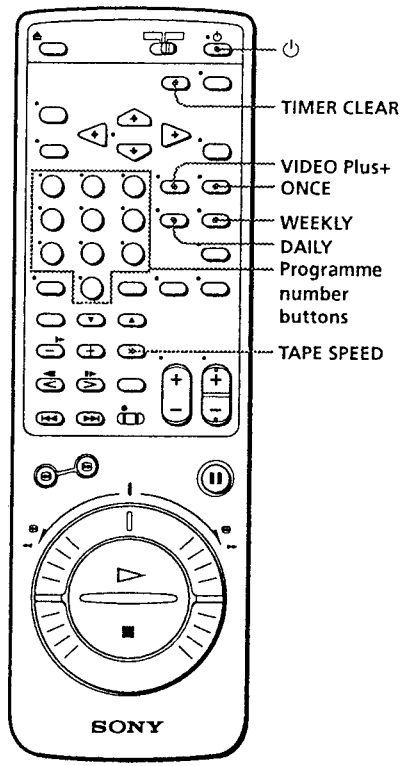
- The display does not appear during still (pause) mode or slow-motion playback.
- The display will not appear while playing an NTSC-recorded tape.
- If a tape has portions recorded in both PAL and NTSC systems, the time counter reading will not be correct. This discrepancy is due to the difference between the counting cycles of the two video systems.

Recording TV programmes using VIDEO Plus+

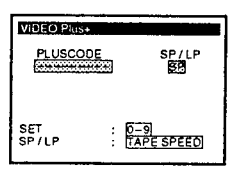
Just enter the programme's "PlusCode" listed in the TV programme guide. The date, times and programme position of that programme are set automatically. You can preset up to eight programmes at a time.

Before you start...

- Check that the VCR clock is set to the correct time.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.
- Turn on your TV and set it to the video channel.

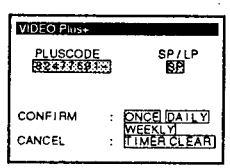


1 VIDEO Plus+ Press VIDEO Plus+.



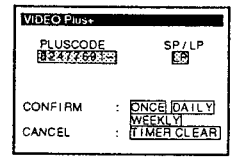
2 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⓪ Press the programme number buttons to enter the programme's PlusCode.

If you make a mistake, press TIMER CLEAR and re-enter the correct number.



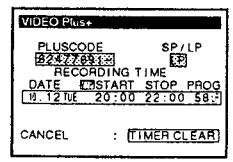
Recording TV programmes using VIDEO Plus+ (continued)

3 TAPE SPEED Press TAPE SPEED to select SP or LP.



4 ONCE or DAILY or WEEKLY Press ONCE, DAILY or WEEKLY:

To record	Press
Only once	ONCE
Everyday Monday to Friday	DAILY
Once a week	WEEKLY



The date, start and stop times, programme position, and tape speed appear on the TV screen.

If you want to turn on the PDC function, see page 47 and change the TIMER SET/CHECK menu.

For details of the PDC function, see "Timer recording with PDC signals" on page 43.

If the information is not correct, press TIMER CLEAR to cancel the setting.

5 To enter another setting, repeat steps 1 to 4.

6 ⏻ Press ⏻ to turn off the VCR.

The TIMER indicator appears in the display window and the VCR stands by for recording.

To stop recording

To stop the VCR while recording, press ■ STOP.

To record satellite broadcasts

If you connect the satellite tuner and the VCR, you can record satellite programmes.

1 Turn on the satellite tuner.

2 On the satellite tuner, select the satellite programme for which you wish to make a timer setting.

3 Repeat the steps described above.

4 Keep the satellite tuner turned on until the VCR finishes recording the satellite programme for which you have made a timer setting.

To use the VCR after setting the timer

To use the VCR before a timer recording begins, just press ⏻. The TIMER indicator turns off and the VCR switches on. Remember to press ⏻ to reset the VCR after using the VCR.

You can also do the following tasks while the VCR is recording:

- Reset the counter.
- Display tape information on the TV screen.
- Check the timer settings.
- Watch another TV programme.

Tip

- To cancel the procedure, press VIDEO Plus+ before pressing ONCE, DAILY or WEEKLY.

Note

- If the VCR beeps repeatedly, this means that:
  - The PlusCode is incorrect.
  - ONCE, DAILY, or WEEKLY was selected incorrectly. You cannot select DAILY or WEEKLY for a programme that airs more than seven days ahead.

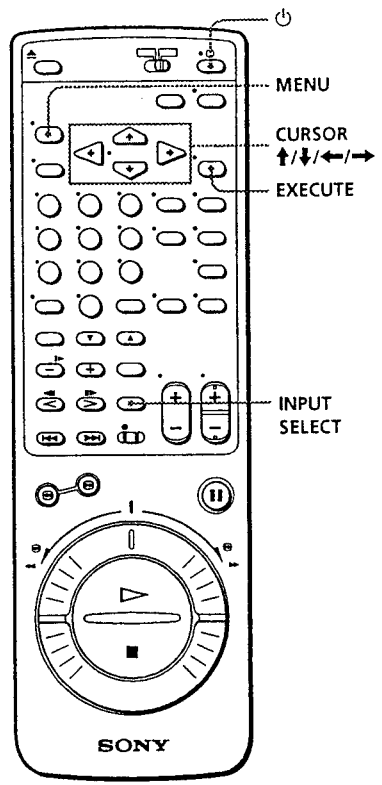
1-19

Setting the timer manually

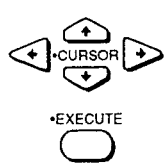
If VIDEO Plus+ is not available in your area, follow the instructions below to set the timer to record programmes.

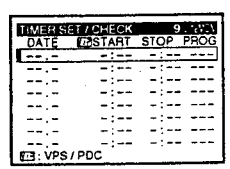
Before you start...

- Check that the VCR clock is set to the correct time.
- Insert a tape with its safety tab in place. Make sure the tape is longer than the total recording time.
- Turn on your TV and set it to the video channel.



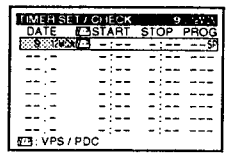
1 Press MENU and select TIMER SET/CHECK, then press EXECUTE.





2

Set the date, PDC function, start and stop times, programme position, and tape speed:



1 Press CURSOR ➡ to highlight each item in turn.

2 Press CURSOR ⬆/⬇ to set each item.

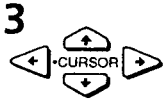
To correct a setting, press CURSOR ⬅ to return to that setting and reset.

To record the same programme every day or the same day every week, press CURSOR ⬇ while the date is highlighted. For details, see "Daily/weekly recording" on the next page.

If you don't want to use the PDC function, press CURSOR ⬆/⬇ to turn off V/P in the "V/P" position. For details, see "Timer recording with PDC signals" on the next page.

To record from other sources connected to the EURO-AV (LINE-1) or EURO-AV (LINE-3) connector, or the LINE-2 IN jacks, press INPUT SELECT to display "L1," "L3," or "L2" in the "PROG" position.

3



Press CURSOR ➡ to confirm the setting.

The cursor (I) appears at the top of the line. To enter another setting, move the cursor to the next line and repeat step 2.

4

Press EXECUTE.

5

Press ⏻ to turn off the VCR.

The TIMER indicator appears in the display window and the VCR stands by for recording.

To record from a decoder or other source, leave the connected equipment switched on.

To stop recording

To stop the VCR while recording, press ■ STOP.

continued

Setting the timer manually (continued)

Daily/weekly recording

In step 2 above, press CURSOR ⬇ to select the recording pattern. Each time you press CURSOR ⬇, the indication changes as shown below.

the current date → SUN-SAT → MON-SAT → MON-FRI → EVERY SAT ..... → EVERY MON → EVERY SUN → 1 month later →(cycles backward) → the current date

Timer recording with PDC signals

The broadcast systems transmit PDC (Programme Delivery Control) signals with its TV programmes. These signals ensure that your timer recordings are made regardless of broadcast delay, early starts or broadcast interruptions.

In step 2 above, press CURSOR ⬆/⬇ to turn on/off the V/P indicator after you set the recording date. If you do not want to set the PDC function, turn off the V/P indicator.

You can also use the PDC function for a source connected to the EURO-AV (LINE-1) and EURO-AV (LINE-3) connectors, and the LINE-2 IN jacks.

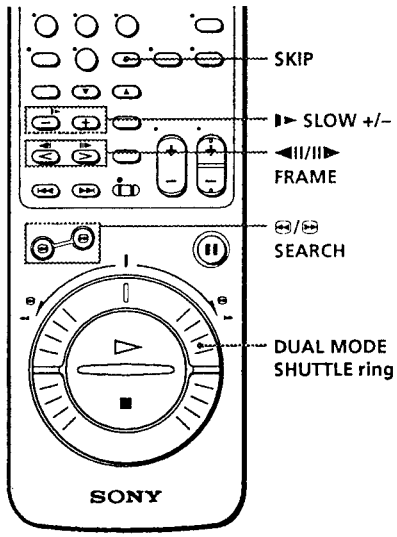
Tips

- To set the programme position, you can also use the PROG +/– or programme number buttons.
- To set the tape speed, you can also use TAPE SPEED.

Notes

- When setting the timer with PDC signals, enter the start and stop times exactly as indicated in the TV programme guide, otherwise the PDC function won't work.
- If the PDC signal is too weak or the broadcasting station failed to transmit PDC signals, the VCR will start recording at the set time without using the PDC function.
- "TIMER" flashes in the display window when you press ⏻ with no tape inserted.

Playing/searching at various speeds



Playback options	Operation
Play at various speeds	During playback, turn the DMS ring and hold it at the speed you want.
Fast-forward/rewind	During stop, turn the DMS ring to ►► FF or ◄◄ REW and release.
View the picture during fast-forward or rewind	During fast-forward, turn the DMS ring to ►► FF. During rewind, turn the DMS ring to ◄◄ REW.
Play at twice the normal speed	During playback, turn the DMS ring to × 2.
Play at high speed	During playback or pause, press ⏭ SEARCH or ⏮ SEARCH. To change direction, press > or <.
Play in slow motion	During playback or pause, press I► SLOW +/–. Press the +/– buttons to change the speed. To change direction, press > or <.
Play frame by frame	During pause, press II► FRAME or ◄II FRAME. Hold the button down to play one frame each second.
Play in reverse	During playback, press <.
Skip a scene	During playback, press SKIP. Pressing once skips about 30 seconds.
Rewind and start play	During stop, hold the DMS ring on the VCR at the ◄◄ REW position and press ▷ PLAY on the VCR, then release the DMS ring.

To resume normal playback

Press ▷ PLAY.

Tip

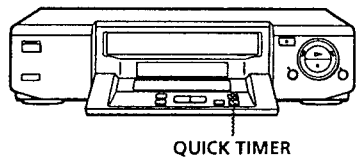
- Adjust the picture using ▼/▲ TRACKING NORMAL/SLOW STILL ADJUST if:
  - Streaks appear while playing in slow motion.
  - Bands appear at the top or bottom while pausing.
  - The picture shakes while pausing.

Notes

- The playback sound is muted during these operations.
- In the LP mode, noise may appear or there may be no colour.

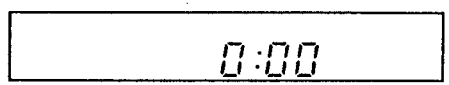
1-21

Recording TV programmes using the quick timer



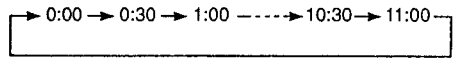
After starting recording in the normal way, you can have the VCR stop recording automatically after a specified duration.

1 While recording, press QUICK TIMER once.



2 Press QUICK TIMER repeatedly to set the duration.

Each press advances the time in increments of 30 minutes.



The duration decreases minute by minute to 0:00, then the VCR stops recording and turns off automatically.

To extend the duration

Press QUICK TIMER repeatedly to set to the new duration.

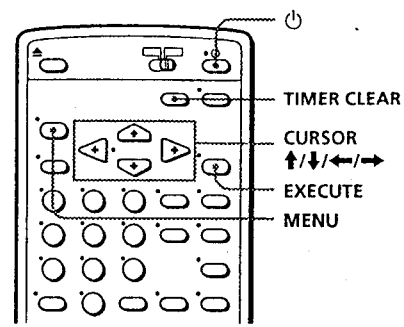
To stop recording

To stop the VCR while recording, press ■ STOP.

Tip

- You can also set the quick timer and start recording during the stop mode.

Checking/ changing/ cancelling timer settings

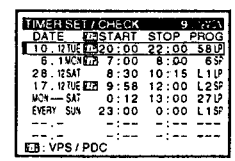


Before you start...

- Turn on your TV and set it to the video channel.

1 Press ⏻ to turn on the VCR.

2 Press MENU, then select TIMER SET/CHECK.



- If you want to change a setting, go on to the next step.
- If you do not need to change the settings, press EXECUTE, then turn off the VCR to return to recording standby.

3 Press CURSOR ↑/↓ to select the setting you want to change or cancel:

- To change the setting, press CURSOR ←/→ to highlight the item you want to change, and press CURSOR ↑/↓ to reset it.
  To cancel the PDC function, turn off the V/P indicator.
  Then, press CURSOR → repeatedly until the cursor (I) appears at the top of the line.
- To cancel the setting, press TIMER CLEAR.

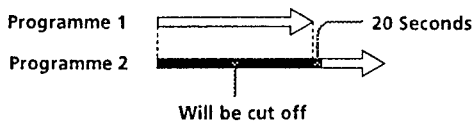
4 Press EXECUTE.

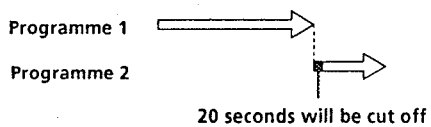
If any settings remain, turn off the VCR to return to recording standby.

continued

When the timer settings overlap

The programme that starts first has priority and the second programme starts recording only after the first programme has finished. If the programmes start at the same time, the programme listed first in the menu has priority.





Recording stereo and bilingual programmes

In NICAM system

This VCR receives and records stereo and bilingual programmes based on the NICAM system (the NICAM indicator appears). When a stereo or bilingual programme is received, the STEREO indicator appears in the display window.

To record a NICAM programme, HIFI AUDIO in the SET UP MENU should be set to NICAM (initial setting). To check the menu setting, see page 60 for details.

To select the sound while recording

Press AUDIO MONITOR to select the sound you want.

Stereo programme

To listen to	On-screen display	Display window
Stereo	STEREO	STEREO
Standard sound*	No indicator	No indicator

* Usually the mixed sound of left and right channels (monaural)

Bilingual programme

To listen to	On-screen display	Display window
Main	MAIN	STEREO
Sub	SUB	STEREO
Main and sub	MAIN/SUB	STEREO
Standard sound*	No indicator	No indicator

* Usually the main sound (monaural)

continued

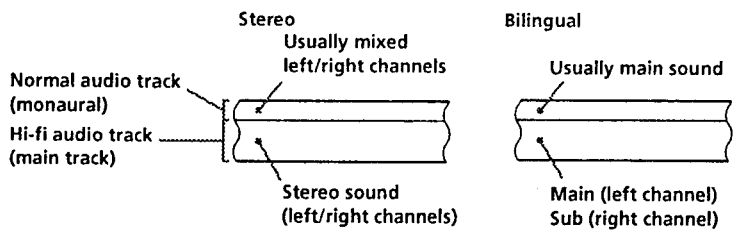
Selecting the sound during playback

Press AUDIO MONITOR to select the sound you want.

To listen to	On-screen display	Display window
Stereo/main and sub (left and right channels)	STEREO	STEREO
Left channel/main	LCH	STEREO
Right channel/sub	RCH	STEREO
Standard sound	No indicator	No indicator

How sound is recorded on a video tape

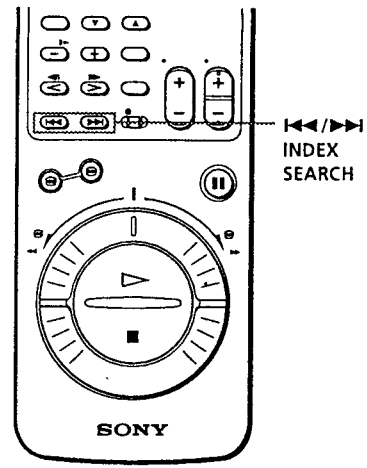
The VCR records sound onto two separate tracks. Hi-fi audio is recorded onto the main track along with the picture. Monaural sound is recorded onto the normal audio track along the edge of the tape.



Notes

- To listen to playback sounds in stereo, you must use the EURO-AV or AUDIO OUT connections.
- When you play a tape recorded in monaural, the sound is heard in monaural regardless of the AUDIO MONITOR setting.
- If the AUDIO MONITOR button does not function, check that AUDIO MIX in the SET UP MENU is set to OFF.
- If HIFI AUDIO is set to STD, the standard sound will be recorded on both the hi-fi and normal audio tracks. Pressing AUDIO MONITOR will not change the sound.

Searching using the index function

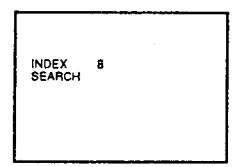


The VCR marks the tape with an index signal at the point where each recording begins. Use these signals as references to find a specific recording. The VCR can search up to 99 index signals ahead of or behind the current position.

1 Insert an indexed tape into the VCR.

2 Press ⏮ / ⏭ INDEX SEARCH repeatedly to specify how many index signals ahead or behind you want to search:

- To search ahead, press ⏭ INDEX SEARCH.
- To search backwards, press ⏮ INDEX SEARCH.



The VCR starts searching and the index number on the TV screen counts down to zero. Playback starts automatically from that point.

To stop searching

Press ■ STOP.

Note

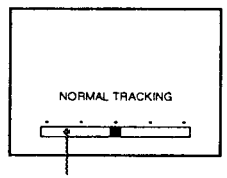
- No index signal will be added when recording starts from recording pause. However, an index signal will be marked if you change the channel during recording pause.

Adjusting the picture

Adjusting the tracking

Although the VCR automatically adjusts the tracking when playing a tape (the AUTO TRACKING indicator flashes in the display window, then lights steadily), distortion may occur if the tape was recorded in poor condition. If so, manually adjust the tracking.

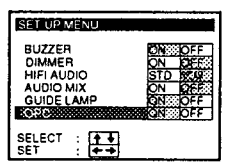
Press ▼/▲ TRACKING NORMAL/SLOW to display the tracking meter. The distortion should disappear as you press one of the two buttons. If you cannot get a clear picture with manual adjustment, press TRACKING AUTO/MANUAL to return to automatic adjustment.



Tracking meter

About Optimum Picture Control (OPC)

Optimum Picture Control (OPC) automatically improves recording and playback quality by adjusting the VCR to the condition of the video heads and tape. To maintain better picture quality, we recommend that you set OPC to ON in the SET UP MENU (with the OPC indicator in the display window lit).



OPC playback

The OPC function automatically works on all types of tapes, including rental tapes and tapes that were not recorded with OPC.

OPC recording

Whenever you insert a tape and first start recording, the VCR adjusts to the tape using the OPC function (the OPC indicator flashes rapidly). This adjustment is retained until the tape is ejected.

To deactivate the OPC

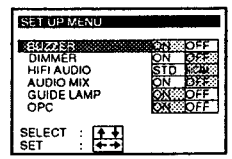
Press MENU and select SET UP MENU, then set OPC to OFF. The OPC indicator in the display window goes off.

Notes

- You can adjust the tracking for the NTSC-recorded tape but the tracking meter won't be displayed.
- There is a delay of a few seconds before the VCR actually starts recording while the VCR analyses the tape. To avoid the delay, first set the VCR to recording pause (the OPC indicator flashes slowly) and press ● REC to have the VCR analyse the tape (the OPC indicator flashes rapidly). After the OPC indicator stops flashing, press ❚❚ PAUSE to start recording immediately. If you want to start recording quickly without using the OPC function, first set the VCR to recording pause (the OPC indicator flashes slowly) and press ❚❚ PAUSE to start recording.

Changing menu options

1 Press MENU, then select SET UP MENU.



2 Press CURSOR ↑/↓ to select the option to change, then press CURSOR ←/→ to change the setting.

3 Press EXECUTE to return to the original screen.

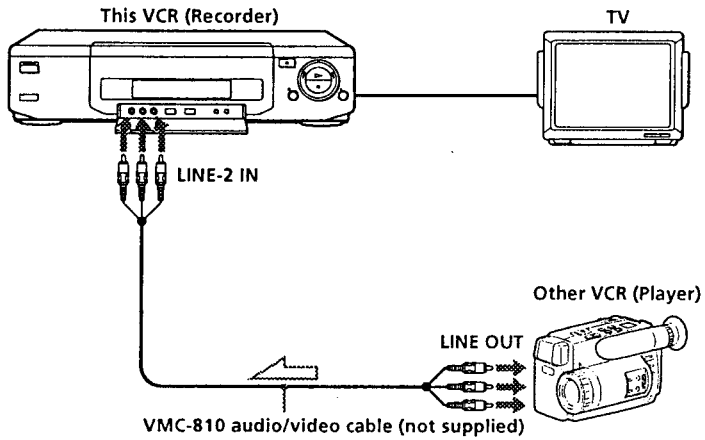
Menu choices

Initial settings are indicated in bold print.

Menu option	Set this option to
BUZZER	**ON** to output a beep sound when all illogical operation is made. OFF to deactivate it.
DIMMER	ON to make the display window dim, **OFF** to make it brighter.
HIFI AUDIO	STD to record standard sound on the hi-fi audio track. **NICAM** to record NICAM broadcasts on the hi-fi audio track. For details, see page 50.
AUDIO MIX	ON to listen to the hi-fi and normal audio tracks at the same time. The AUDIO MONITOR button will not function. **OFF** to listen to the hi-fi and normal audio tracks separately. Select the sound using the AUDIO MONITOR button. For details, see page 50.
GUIDE LAMP	**ON** to illuminate the ● REC button on the VCR in orange when you can start recording. OFF to turn it off.
OPC	**ON** to switch on the OPC (Optimum Picture Control) function and improve picture quality, OFF to switch off OPC. For details, see page 52.

Connecting to a VCR or stereo system

How to connect to record on this VCR



Notes

- Make sure you connect the plugs to jacks of the same colour.
- If the other VCR is a monaural type, leave the red plugs unconnected.
- If you connected this VCR to both the LINE IN and LINE OUT jacks of the other VCR, select the input correctly to prevent a humming noise.
- You can also use the EURO-AV (LINE-1 or LINE-3 IN) connector instead.

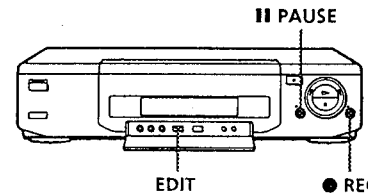
How to connect to a stereo system

Connect the LINE-2 IN AUDIO L/R jacks on this VCR to the audio output jacks on the stereo system, using the RK-C510KS audio cable (not supplied).

1-26

Basic editing

(when recording on this VCR)



Before you start editing

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT to display "L2" (or "L1" or "L3" depending on the connection) in the display window.
- Press TAPE SPEED to select the tape speed, SP or LP.
- On this VCR, set the EDIT switch to ON. If the other VCR has a similar switch, set it to ON as well.

1 Insert a source tape with its safety tab removed into the other (playback) VCR.

Search for the point to start playback and set it to playback pause.

2 Open the drop down panel and insert a tape with its safety tab in place into this (recording) VCR.

Search for the point to start recording and press II PAUSE.

3 Press ● REC on this VCR and set it to recording pause.

4 To start editing, press the II PAUSE buttons on both VCRs at the same time.

To stop editing

Press the ■ STOP buttons on both VCRs.

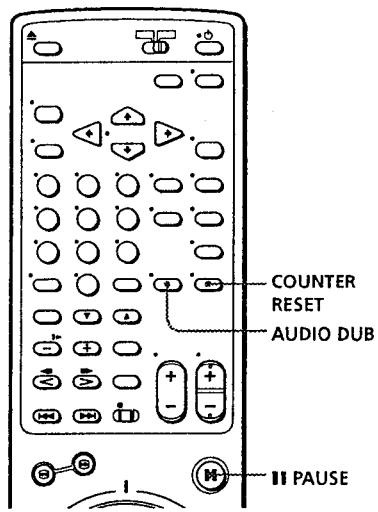
Tips

- To edit more precisely, press the II PAUSE buttons on the VCRs to release pause.
- To cut out unwanted scenes while editing, press II PAUSE on this VCR when an unwanted scene begins. When it ends, press II PAUSE again to resume recording (Assemble Editing).

Note

- If you start recording following the procedure above, the VCR won't start recording with the OPC function. To record a tape with the OPC function, press ● REC again during recording pause in step 3 so that the VCR analyses the tape. Then when you start recording in step 4, press II PAUSE after the OPC indicator stops flashing. If you press II PAUSE before the OPC indicator stops flashing, the OPC function is cancelled.

Audio dubbing



This feature lets you record over the normal audio track. The monaural sound previously recorded is replaced while the original hi-fi sound remains unchanged. Use this feature to add commentary to a tape that you have recorded with a camcorder.

Before you start editing...

- Turn on your TV and set it to the video channel.
- Press INPUT SELECT to display "L2" in the display window.

1 Insert a source tape into the stereo system (or the playback VCR). Search for the point to start playback and set it to playback pause.

2 Open the drop down panel and insert a prerecorded tape with its safety tab in place into this (recording) VCR. Search for the end of the section to be replaced and press II PAUSE.

3 Press COUNTER RESET on this VCR to reset the counter to "0H00M00S."

4 Rewind the prerecorded tape to the beginning of the section to be replaced.

The VCR pauses.

5 Press AUDIO DUB.

The audio dubbing indicator ⊖ appears in the display window.

6 To start editing, press the II PAUSE buttons on this VCR and the stereo system (or other VCR) at the same time.

When the counter reaches "0H00M00S," audio dubbing stops automatically.

To stop while editing

Press the ■ STOP buttons on this VCR and the stereo system (or other VCR).

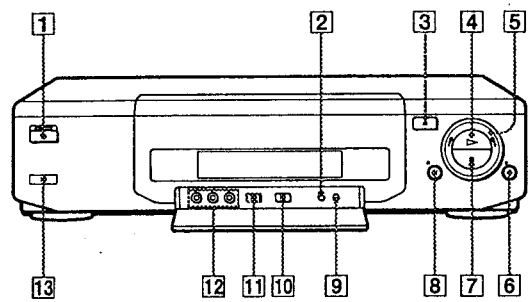
To listen to both the hi-fi and normal audio

Set AUDIO MIX to ON in the SET UP MENU (page 53). Use this feature to listen to dubbed audio over the original hi-fi audio. When AUDIO MIX is set to ON, the AUDIO MONITOR button does not function. Remember to reset AUDIO MIX to OFF after playing the tape.

Index to parts and controls

Refer to the pages indicated in parentheses ( ) for details.

Front panel



1 ON/STANDBY switch/indicator (11)

2 EASY SET UP button (13)

3 ⏏ EJECT button (33)

4 ▷ PLAY button (44)

5 DUAL MODE SHUTTLE ring (33, 44)

6 ● REC button/guide lamp (53, 55)

7 ■ STOP button (55, 56)

8 II PAUSE button (55, 56)

9 RF CHANNEL button (11)

10 STANDBY DISPLAY switch (10)

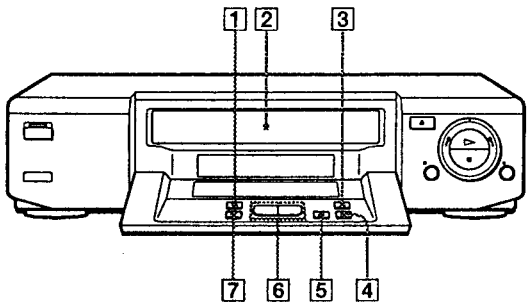
11 EDIT switch (55)

12 LINE-2 IN VIDEO/AUDIO L/R jacks (54)

13 Remote sensor (5)

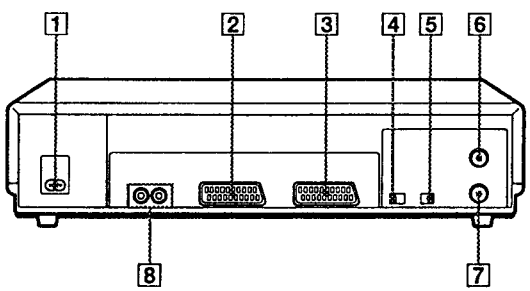
continued

Front panel, with cover opened



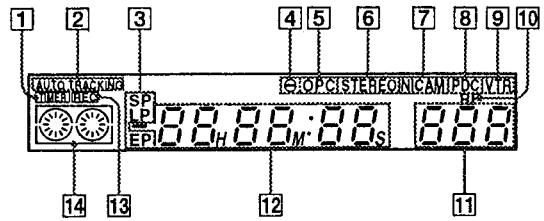
1 TV/VTR button (10, 36)
2 Tape compartment
3 QUICK TIMER button (46)
4 TAPE SPEED button (36)
5 COUNTER RESET button (33)
6 PROGRAM +/– buttons (11)
7 INPUT SELECT button (37, 55, 56)

Rear panel



1 AC IN connector (9)
2 EURO-AV (LINE-1)/PERITEL (LIGNE-1) /DISP ON/AVEC AFFICH connector (10)
3 EURO-AV (LINE-3 IN) connector (37, 42, 43)
4 NTSC PB switch (33)
5 RF MODULATOR switch (9)
6 AERIAL OUT/ ANTENNE SORTIE connector (9)
7 AERIAL IN/ANTENNE ENTREE connector (9)
8 AUDIO OUT L/R/ SORTIE AUDIO D/G jacks (10)

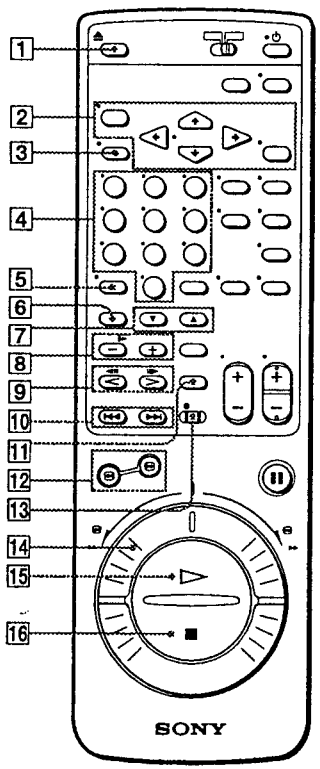
Display window



1 TIMER indicator (39, 42)
2 AUTO TRACKING indicator (52)
3 Tape speed indicator (36)
4 Audio dubbing indicator (56)
5 OPC indicator (52)
6 STEREO indicator (49)
7 NICAM indicator (49)
8 PDC indicator (43)
9 VTR indicator (10, 36)
10 RF indicator (11)
11 Line/programme position indicator (11, 35, 55, 56)
12 Time counter/clock (33)
13 REC indicator
14 Tape indicator

continued

Remote commander



1 ⏏ EJECT button (33)

2 Menu buttons (13)

MENU button
CURSOR ↑/↓/←/→ buttons
EXECUTE button

3 AUDIO MONITOR button (50)

4 Programme number buttons (7, 18, 38)

5 -/-- (ten's digit) button (37)

6 TRACKING AUTO/MANUAL button (52)

7 ▼/▲ TRACKING NORMAL/SLOW STILL ADJUST buttons (45, 52)

8 ▮► SLOW +/– buttons (44)

9 ◄▮▮/▮▮► FRAME </> buttons (44)

10 ⏮/⏭ INDEX SEARCH buttons (51)

11 INPUT SELECT button (37, 42, 55, 56)

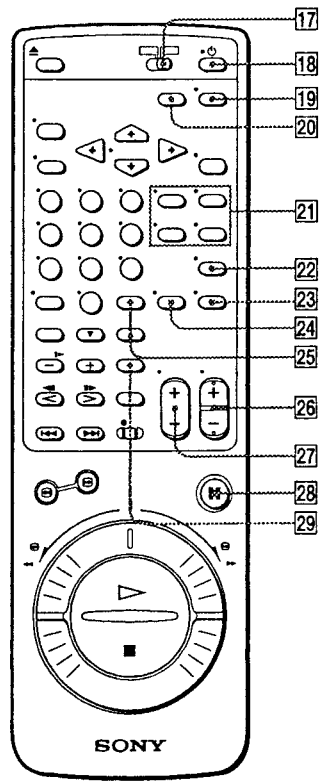
12 ⏪/⏩ SEARCH buttons (33, 44)

13 ● REC button (36)

14 DUAL MODE SHUTTLE ring (33, 44)

15 ▷ PLAY button (32)

16 ■ STOP button (33)



17 TV / VTR remote control switch (7)

18 ⏻ (on/standby) switch (6, 7, 42)

19 TV/VIDEO button (6, 10)

20 TIMER CLEAR button (27, 39, 47)

21 VIDEO Plus+ buttons (38, 39)

VIDEO Plus+ button
ONCE button
DAILY button
WEEKLY button

FASTEXT buttons (6, 7)

22 DISPLAY button (36)

23 COUNTER RESET button (33)

▢ TV power on/TV mode select button *(for TV)* (6, 7)

24 AUDIO DUB button (56)

▤ Teletext button *(for TV)* (6, 7)

25 SKIP button (44)

26 PROG +/– buttons (17, 35)

▤▲/▤▼ Teletext page access buttons *(for TV)* (6, 7)

27 VOL +/– buttons *(for TV)*

28 ▮▮ PAUSE button (33)

29 TAPE SPEED button (36)